

Armed Forces College of Medicine AFCM



Mediastinum

Mediastinum



INTENDED LEARNING OBJECTIVES (ILO)

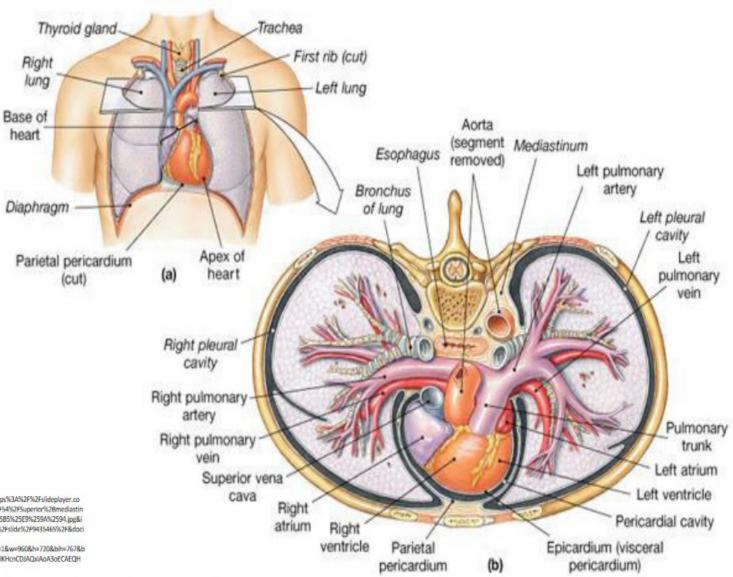
By the end of this section each student should be able to:

- 1. Identify the position of mediastinum.
- 2. Trace the boundaries and divisions of the mediastinum.
- 3. Identify the contents of the superior, anterior, middle and

Mediastinum



Where is the Mediastinum?
It is a partition found between right and left pleural sacs.



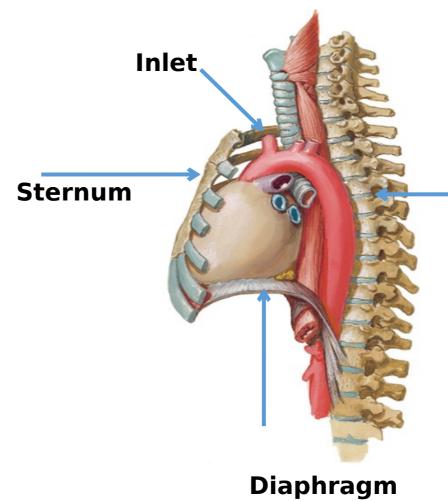
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Boundaries of mediastinum



- **Anterior**: sternum& costal cartilages
- Posterior: bodies of all thoracic vertebrae
- **Superior**: thoracic inlet & root of neck
- Inferior: diaphragm
- Laterally: Rt & Lt Pleural sacs



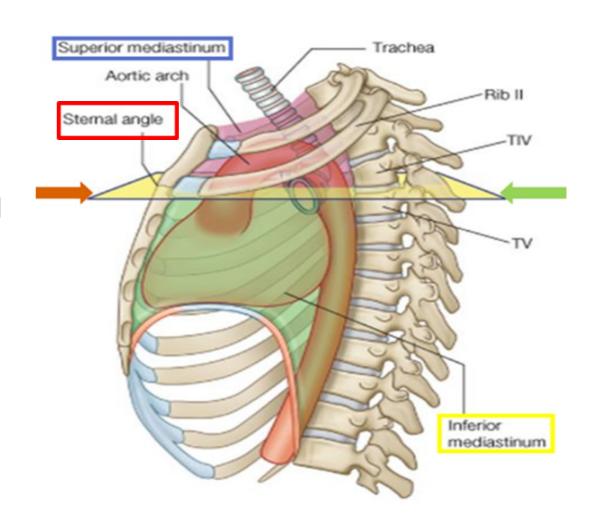
Vertebra

Atlas frank netter 2016

Divisions of the mediastinum



It is divided by an imaginary plane extending from the sternal angle to the lower border of the 4th thoracic vertebra into superior and inferior mediastinum.



Superior mediastinum



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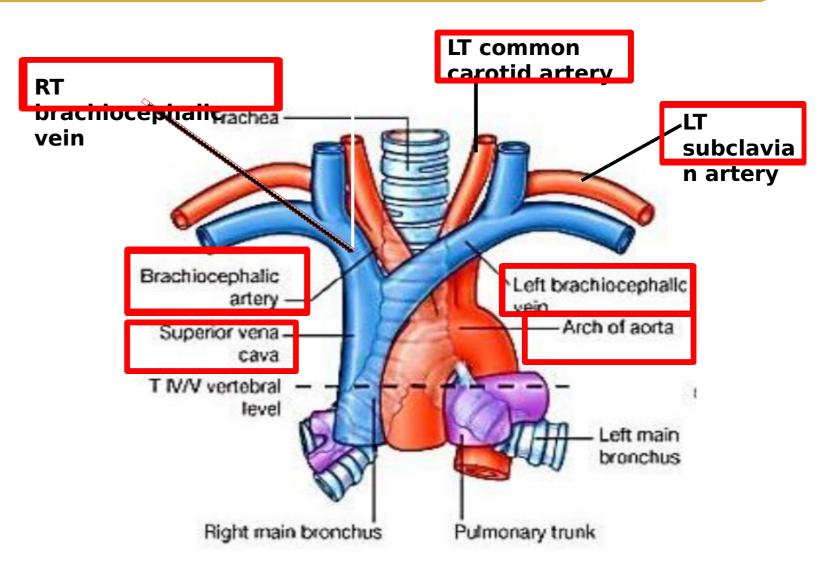
Veins:

- Right brachiocephalic vein
- Left brachiocephalic
- Upper half of SVC

Arteries:

Arch of aorta & its three branches

- Brachiocephalic
- Left Common Carotid
- Left Subclavian



Superior mediastinum

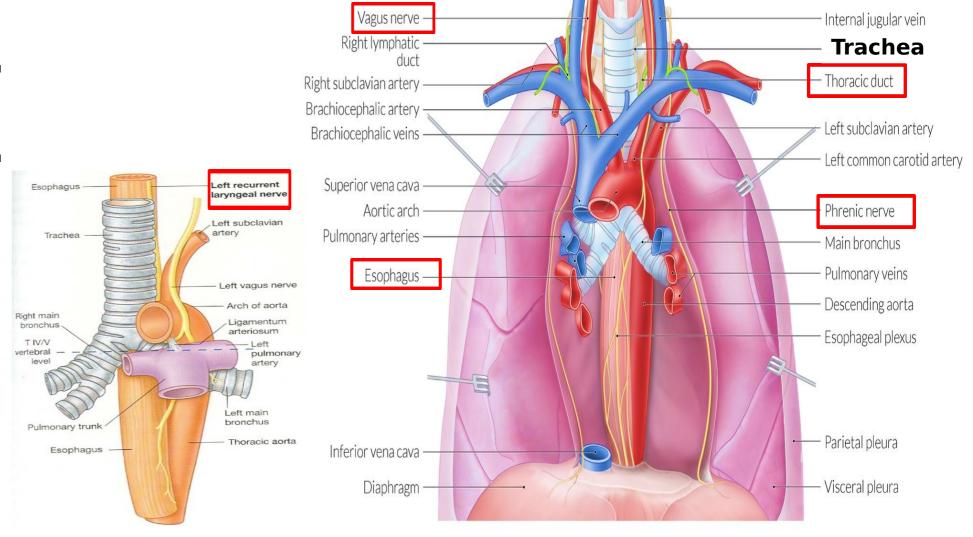


Nerves

- Rt. and Lt. Phrenic
- Rt. and Lt.Vagus
- Lt. recurre laryngeal

Tubes

- Trachea
- Esophagus
- Thoracic d

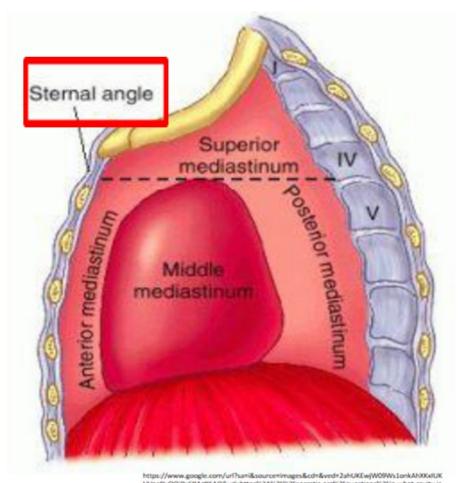


Inferior mediastinum



The inferior mediastinum is further subdivided by heart& pericardium into:

- Anterior mediastinum: anterior to the heart& pericardium.
- Middle mediastinum: contains heart & pericardium.



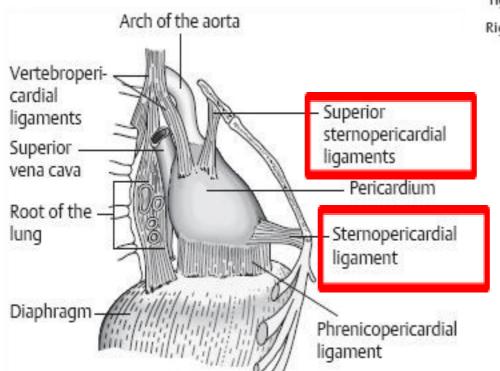
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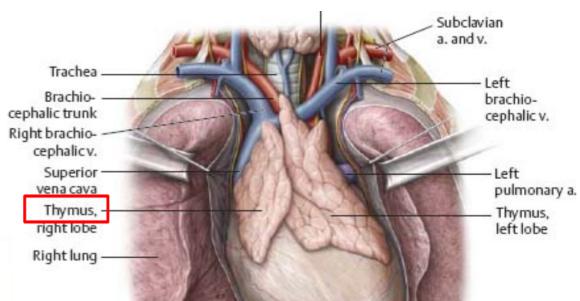
Anterior mediastinum



Contents

- Sternopericardial ligaments
- Remnants of thymus



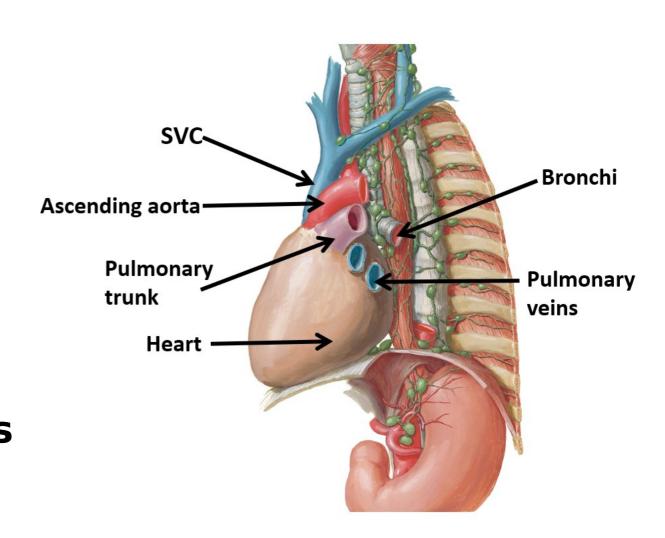


Middle mediastinum



Contents

- Heart within its pericardium
- Ascending aorta & pulmonary trunk
- lower 1/2 of SVC, upper
 of IVC, pulmonary veins
 &termination of azygos
 vein in SVC

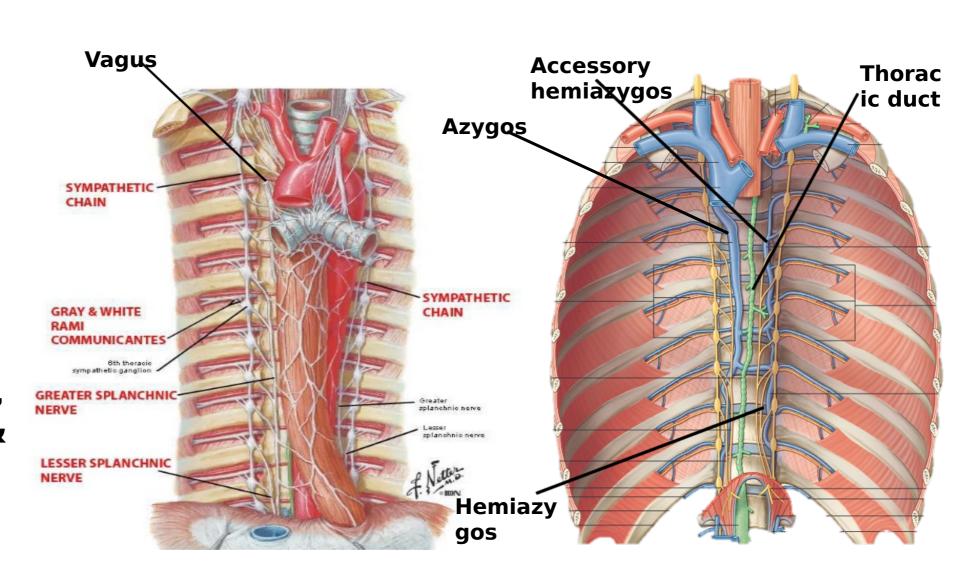


Posterior mediastinum



Contents:

- Esophagus
- Descending aorta& posterior intercostal arteries
- Thoracic duct
- Azygous vein, hemiazygos & accessory hemiazygos
- Vagi & splanchnic



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